

House Bill No. 303 - Speaking Points - *MDT*

Glass Cullet vs Postconsumer Recycled Glass

- Safety and product quality are MDT's concerns with glass that is simply crushed and not processed through a pulverizer.
- A glass pulverizer is available for use through Headwaters Cooperative Recycling, Inc. It was purchased and first used on a glass stockpile in Boulder in May 2005.
- The cullet eliminates MDT's concerns relative to glass safety and quality. Our only issue now is cost.
- Glass Cullet is a pulverized glass product.
  - Pulverizing glass into cullet produces two different sizes of product (3/8 in and 1/8 in minus).
  - It is a manufactured product that can readily be incorporated into manufactured aggregates (i.e. gravel surfacing, Crushed Top Surfacing, Bedding and foundation material, and Filter Material).
  - MDT is comfortable these aggregates blended with 10% glass cullet will perform the same as 100% virgin material. We do not have the same level of comfort with including it in other products such as asphalt pavements or concrete.
  - Current supplies of glass do not necessitate including it in products other than aggregate materials. To add to that, a significant increase in supply would not require a change in this stance.

MDT's Current Practice

- There is currently approximately 570 cubic meters (approx. 1,800 english tons) of glass cullet stockpiled at the Boulder landfill. MDT has committed to use the entire stockpile in the Crushed Base Course for the 2002 - Curve NE of Whitehall project. Project Number HSIP 69-1(26)11.
- MDT has been working closely with DEQ to require glass cullet on certain projects where the financial impact to MDT would be minimal. We would prefer to have the ability to select the most cost effective projects to include cullet.
- MDT Standard Specification 701.11 allows the use of glass cullet as a soil-aggregate filler as long as it meets certain engineering properties
  - See attached specification
  - Up to 20% of the total blend is currently allowed. In the near future this will be reduced to 10% for Base Courses and exclude it's use in plant mix and concrete.
- We plan to continue to allow the use of glass in manufactured aggregates and then choose specific projects to require the glass when it is "relatively" cost effective and an adequate supply of glass is available.
- DEQ has been successful in creating markets for the glass. Due to the limited quantity available, it is possible MDT may not even be needed to use it. At the very least, we'd like to encourage the development of these markets. If MDT is required to use it, the effort won't be put into developing other, cost effective markets.

### *Pulverizer*

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- DEQ works with Headwaters (operators of the mobile glass pulverizer purchased by DEQ with enforcement money revenue). Headwaters Cooperative Recycling, Inc. performs the work and DEQ is actively working to create markets for the cullet. See story at the following site <http://deq.mt.gov/recycle/glass>
- Glass is pulverized at the rate of 2 tons/hour or about 80 tons/week
- The pulverizer is underutilized at this time meaning the single pulverizer has not had any trouble meeting current demand. It is relatively new but the current quantities of glass produced in MT should not be a problem.